



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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SPECIFICATION CONTROL DRAWING

7824E0422

CHEMINAX

78 OHM, AWG 24, 19 STRANDS OF AWG 36, DATA BUS CABLE

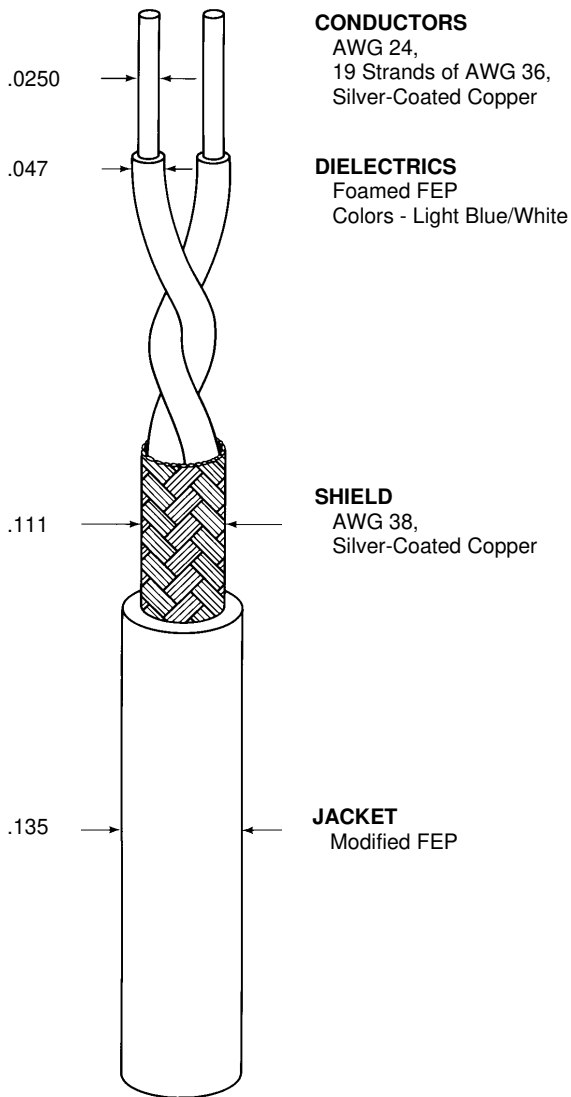
Date: 8-30-16
Revision: G

THIS SPECIFICATION SHEET FORMS A PART OF THE LATEST ISSUE OF RAYCHEM SPECIFICATION 1200.

CONSTRUCTION DETAILS

ELECTRICAL CHARACTERISTICS

DIMENSIONS ARE NOMINAL VALUES IN INCHES, UNLESS OTHERWISE DESIGNATED.



CONDUCTORS
AWG 24,
19 Strands of AWG 36,
Silver-Coated Copper

DIELECTRICS
Foamed FEP
Colors - Light Blue/White

SHIELD
AWG 38,
Silver-Coated Copper

JACKET
Modified FEP

| | |
|---------------------------------------|------------------------------------|
| CHARACTERISTIC IMPEDANCE | 78 ± 4 ohms, Method C at 1 MHz |
| CAPACITANCE CONDUCTOR TO CONDUCTOR | 20 pF/ft. (maximum) |
| VELOCITY OF PROPAGATION | 74% (nominal) |
| ATTENUATION | 10 dB/100 ft. (nominal) at 100 MHz |

ADDITIONAL REQUIREMENTS

ELECTRICAL

| | |
|--|--|
| CONDUCTOR RESISTANCE (prior to cabling) | 23.0 ohms/1000 ft. (nominal) |
| INSULATION RESISTANCE | 10,000 megohms (minimum) for 1000 ft. |
| JACKET FLAWS SPARK TEST IMPULSE TEST | 1.0 kV (rms) 6.0 kV (peak) |
| VOLTAGE WITHSTAND (DIELECTRIC) | 1000 volts (rms) (minimum) |

ENVIRONMENTAL

| | |
|---|---|
| FLAMMABILITY | Method B |
| HEAT SHOCK | 225°C |
| LOW TEMPERATURE-COLD BEND | -55°C/3.75 inch mandrel |
| UV LASER MARKING (Per SAE AS4373, Method 1001) | For 7824E0422-9LM only: 67% (minimum) 60% (minimum) |
| VOLTAGE WITHSTAND (Post Environmental) | 1000 volts (rms), 1 minute |

PHYSICAL

| | |
|---|--|
| INSULATION (DIELECTRIC) (prior to cabling) ELONGATION TENSILE STRENGTH | 50% (minimum) 600 lbf/in ² (minimum) |
| JACKET ELONGATION TENSILE STRENGTH | 200% (minimum) 2000 lbf/in ² (minimum) |
| JACKET THICKNESS | .012 inch (nominal) |
| SHIELD COVERAGE | 90% (minimum) |

| | |
|--------|-----------------------------|
| WEIGHT | 14.2 lbs/1000 ft. (nominal) |
|--------|-----------------------------|

ENGINEERING REFERENCE

| | |
|--------------------|-----------------|
| TEMPERATURE RATING | 200°C (maximum) |
|--------------------|-----------------|

Designate outer jacket color with a dash number in accordance with MIL-STD-681. Unless otherwise specified, outer jacket color will be translucent white designated by a "-9X" appended to the part number, e.g. 7824E0422-9X.

A white laser markable outer jacket will be designated by a "-9LM" appended to the part number, e.g. 7824E0422-9LM.

Other codes and suffixes may be added to the part number, as necessary, to capture any additional requirements imposed by the purchase order.

Users should evaluate the suitability of this product for their application. Specifications are subject to change without notice. Tyco Electronics Corporation also reserves the right to make changes in materials or processing, which do not affect compliance with any specification, without notification to Buyer.

